

### **Coastal Protection and Restoration Authority of Louisiana**

# Office of Coastal Protection and Restoration

## **2008 Annual Inspection Report**

### **Jonathan Davis Wetland Protection**

State Project Number BA-20 Priority Project List 2

July 13, 2009 Jefferson Parish

Prepared by:

Barry Richard, E.I. OCPR/Operations Division New Orleans District Office CERM, Suit 309 2045 Lakeshore Dr. New Orleans, La 70122

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#### I. Introduction

The Jonathan Davis Wetland Protection (BA-20) project is located in Jefferson Parish within the Barataria Basin. It encompasses 7,199 acres (2,880 ha) of wetlands, which were classified as intermediate marsh in 1994 (OCPR 1998). The project is bounded on the north by the Pailet Canal, on the east by La. Hwy. 301, on the south by Bayous Perot and Rigolettes, and on the west by the Gulf Intracoastal Waterway (GIWW) (Appendix A).

### **II.** Project Description and History

Overall, 1,393 ac (557 ha) of land within the Jonathan Davis Wetland Protection project area have been converted to open water between 1945 and 1989 (Coastal Environments Inc. 1991). The average rate of change of marsh to non-marsh (including loss to both open water and commercial development) has increased since the 1940s. National Biological Survey (NBS) Geographic Information System (GIS) habitat data from 1956 characterized the majority of the area as fresh marsh. However, the 1978 and 1990 data indicate that the area has become more saline. In both 1978 and 1990, the area was classified as primarily intermediate marsh. Chabreck and Linscombe (1988) also characterize the area as intermediate marsh.

Large scale factors influencing degradation in the Barataria basin include subsidence, lack of sedimentation, and reduced freshwater influx due to the levee system on the Mississippi River and its major distributaries. To compound this problem, there are no major external sources of inorganic sediment into the project area although some sediment does enter via the GIWW. Moreover, storm surges moving through numerous oil field canals within the area have facilitated the export of a large portion of the indigenous inorganic and organic sediments.

Other factors influencing wetland loss within the project area are increased water exchange, saltwater intrusion, tidal scour, and shoreline erosion along Bayous Perot and Rigolettes. Shoreline erosion from 1945 to 1989 caused primarily by wave action along Bayou Perot has been measured at 20 ft/yr (6.1 m/yr). Saltwater intrusion and tidal scour are believed to have been enhanced with the construction of various oil field canals that were dredged in the 1940s when oil companies were not responsible for maintaining a continuous spoil bank along the canals. As a result, the breaches that occurred were not repaired and subsequently exposed the interior marsh to increased tidal flows and salinity during storm surges.

Project features consist of shoreline protection, rock armored plugs, rock weirs, and weirs with boat bays. Construction Unit 1, which consists of project features 12, 13, 14, 15, 16, 17, 19, 20, and 21, was completed in September 1998. Construction Unit 2 was completed in May 2001. It encompassed installing a weir at structure 22, and shoreline protection from structures 20 to 22. Construction Unit 3, which consists of shoreline

protection extending from project feature 12, west to the Gulf Intracoastal Waterway, was completed on July 7, 2003. Construction of features 1, 2, 3, 6, 8, 9, 10, and 11 in the northern project area has been deferred due to lack of funding, and land rights issues. (Appendix A)

On January 30, 2002, Stone Energy Corporation was issued a Coastal Use Permit to plug and abandon existing wells within the Jonathan Davis Wetland Protection Project. This work was completed on 7/18/02 and consisted of removing and replacing structures 13 & 19 to plug and abandon several existing wells located behind these structures. The cost associated with removing and replacing these structures was incurred entirely by Stone Energy Corporation. However, at the request of NRCS, OCPR was required to provide inspection services for this project. OCPR obtained the services of GSE Associates, Inc. to inspect construction activities and prepare a project completion report and as-built drawings. These services were performed for a total cost of \$9,394.13.

As part of the construction documents prepared by NRCS for this project, Stone Energy Corporation was required to reconstruct structure 13, increasing the boat bay crest from 50' to 100' in width and raising the crest elevation from -5.0' NGVD to -2.5' NGVD.

No other maintenance work has been performed on this project since the completion of Construction Unit 1.

### **III.** Inspection Purpose and Procedures

The purpose of the annual inspection of the Jonathan Davis Wetland Protection (BA-20) project is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. Should it be determined that corrective actions are needed, OCPR shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan March 18, 2002). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C. A summary of past operation and maintenance projects completed since completion of the project are outlined in Section II.

An inspection of the Jonathan Davis Wetland Protection (BA-20) project was held on September 30, 2008, by Barry Richard of OCPR and Quin Kinler of NRCS. This inspection was a result of Hurricanes Gustav and Ike making landfall in coastal Louisiana. There was a light southeast wind and clear skies. Photographs of that inspection are included in Appendix B of this report.

#### **IV.** Inspection Results

#### **Construction Unit No. 1**

#### Structure No. 12 – Rock rip-rap armored plug

The structure is in good condition. There is some slight settling near the edge of the plug adjacent to the two signs. All of the signs and supports were in good condition. At this time there is no need for any maintenance work to be done at this structure.

#### Structure No. 13 – Rock rip-rap armored weir w/ boat bay

We observed slight settlement on the west side of the structure 13. All signs and supports were also in good condition. No maintenance will be required at this time.

#### Structure No. 14 – Rock rip-rap armored plug

Upon a visual inspection, we noticed a large breach on the west side of the structure and in the center or the structure. (Photo #1). Due to poor soil conditions, this structure has experienced significant settlement problems since the time it was constructed. Several attempts were made during construction to stabilize the structure by placing several lifts of rock, but the structure continued to settle. The maintenance work for this structure will be performed during the construction of Construction Unit 4 (CU 4).

#### Structure No. 15 – Rock rip-rap weir w/ boat bay

Structure 15 appeared to be in good condition at the time of the inspection with little or no noticeable settlement of the rock weir (Photo #2). Signs and supports were also in good condition. The original design of this structure was modified to include a boat bay to accommodate oilfield activities and navigation on the interior marsh of the structure. During the construction of CU 4, this structure will be modified so that it represents the original design more accurately.

#### Structure No. 16 – Rock rip-rap channel plug

Structure 16 appeared to be in good condition with exception of a low area on the south side of the channel plug (Photo #3). The maintenance work for this structure will be performed during the construction of CU4.

#### Structure No. 17 – Rock rip-rap channel plug

During the inspection, we observed significant settlement near the warning sign on the south side of the structure and just east of the warning sign on the north side of the structure. The maintenance work for this structure will be performed during the construction of CU 4.

#### Structure No. 19 – Rock rip-rap weir w/ boat bay

Structure 19 appeared to be in good condition with little signs of settlement of the rock weir. The warning signs and supports were also in good condition. NRCS and OCPR agree that this structure will not require maintenance.

#### Structure No. 20 – Rock rip-rap armored plug

The structure appeared to be in good condition with no signs of settlement of the rock weir. The warning signs and supports were also in good condition. (Photo #4) NRCS and OCPR agree that this structure will not require maintenance.

#### Structure No. 21 – Rock rip-rap armored plug

The rock armored plug appeared to be in good condition with slight settlement on the east side of the structure. This was hard to fully assess due to the amount of growth on the structure. OCPR and NRCS agree that the structure will not require maintenance at this time.

#### **Construction Unit No.2**

#### Structure No. 22 A – Canal bank stabilization

The structure looked to be in good condition. There were very few signs of settlement along the bank stabilization. OCPR and NRCS agree that maintenance of this structure is not needed at this time.

#### Structure No.22 – Steel sheet pile weir w/ boat bay

The structure itself appears to be in good condition along with the signs, supports, and sheet pile caps. OCPR and NRCS agree that this structure will require no work at this time.

#### Bayou Rigolettes Bank Stabilization

The rock dike along the northern shore of Bayou Rigolettes appeared to be in good condition with a few signs of settlement. Maintenance work will not be needed at this time.

#### **Construction Unit No.3**

#### Bayou Perot Bank Stabilization

The Bayou Perot Bank Stabilization looks good. There was some erosion noticed at the western most portion of the West Reach of the structure. There was also some settlement noticed between Sta. 90+00 and 92+00. The maintenance work for this structure will be performed during the construction of CU4.

#### V. Conclusions

Overall this project has proven very effective in reducing shoreline erosion. With the exception of the few soft spots where the dike is experiencing more rapid settlement, the structure has proven very stable. The erosion at the end of Construction Unit 3 will continue to be monitored. The project features mentioned above will all be tied together with the construction of Construction Unit 4 which will provide a stronger, more stable shoreline protection system.

#### VI. Recommendations

There is no need for any maintenance activity at this time.

### **Immediate Repairs**

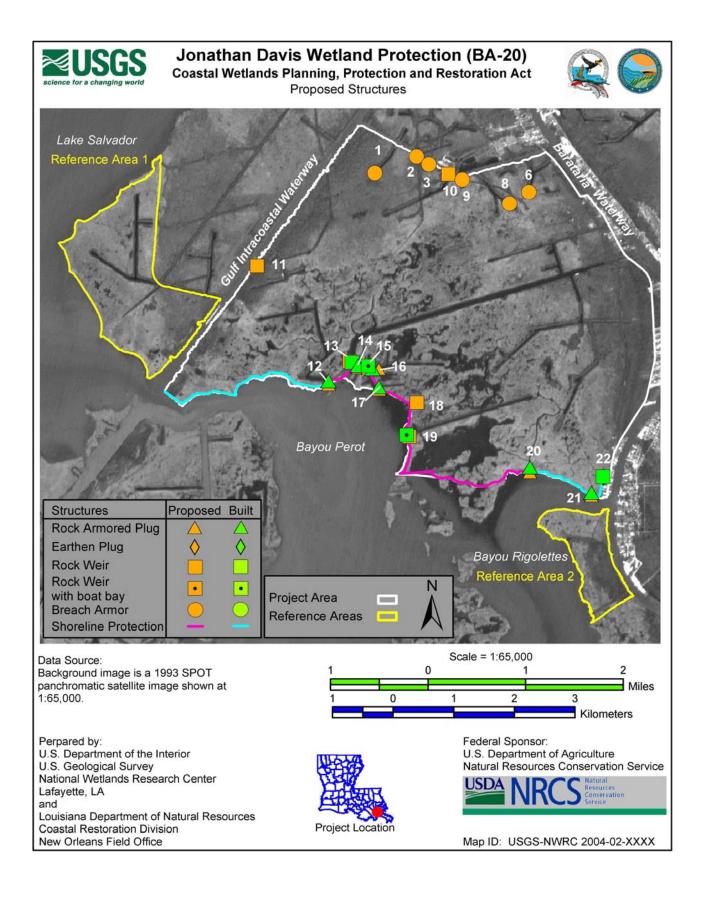
• It should be noted that all of the maintenance items listed to be performed during the construction of CU#4 are contingent upon bids coming in within the funds allocated for construction of CU#4. If this does not occur, then the need for maintenance and to what extent will be determined at that time.

#### **Programmed Maintenance**

• It should be noted that all of the maintenance items listed to be performed during the construction of CU#4 are contingent upon bids coming in within the funds allocated for construction of CU#4. If this does not occur, then the need for maintenance and to what extent will be determined at that time.

## Appendix A

**Project Features Map** 



Appendix B

**Photographs** 



Photo #1 – Structure #14 (Note Gaps)

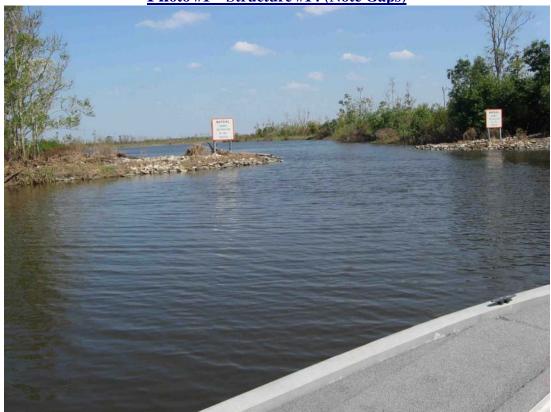


Photo #2 – Structure #15



Photo #3 – Structure #16



Photo #4 – Structure #20

## Appendix C

**Three Year Budget Projection** 

### Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

### Three-Year Operations & Maintenance Budgets 07/01/2009 - 06/30/2012

Project Manager	O & M Manager	Federal Sponsor	Prepared By
Barry Richard	Barry Richard	NRCS	Barry Richard
Maintenance Inspection General Maintenance Structure Operation Administration Maintenance/Rehabilitation	2009/2010 \$3,609.00 \$0.00 \$0.00 \$0.00	\$3,703.00 \$0.00 \$0.00 \$0.00	\$3,799.00 \$0.00 \$0.00 \$0.00
09/10 Description:			
E&D Construction Construction Oversight Sub Total - Maint. And Rehab.  10/11 Description: Cap Rock Struct	\$ -		
E&D Construction Construction Oversight	Sub Total - Maint. And Rehab.	\$0.00 \$0.00 \$0.00 \$	
11/12 Description:			
E&D Construction Construction Oversight		Sub Total - Maint. And Rehab.	\$0.00 \$0.00 \$0.00 \$
	2009/2010	2010/2011	2011/2012
Total O&M Budgets	\$ 3,609.00	\$ 3,703.00	\$ 3,799.00
O &M Budget (3 yr Tota Unexpended O & M Bu Remaining O & M Budg	<u>dget</u>		\$ 11,111.00 \$ 7,239,987.70 \$ 7,228,876.70

#### **OPERATION AND MAINTENANCE BUDGET WORKSHEET 2009/2010**

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED TOTAL
O&M Inspection and Report	EACH	1	\$3,609.00	\$3,609.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations Contract	LUMP	1	\$0.00	\$0.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADI	MINISTRAT	ION	
LDNR / CRD Admin.	LUMP	1	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	1	\$0.00	\$0.00
SURVEY Admin.	LUMP	1	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

#### MAINTENANCE / CONSTRUCTION

#### SURVEY

	SURVET				
SURVEY DESCRIPTION:					
•	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	Structure Survey	LUMP	1	\$0.00	\$0.00
			тс	TAL SURVEY COSTS:	\$0.00

#### **GEOTECHNICAL**

GEOTECH						
DESCRIPTION:						
	Borings	EACH	0	\$0.00	\$0.00	
	OTHER				\$0.00	
	TOTAL GEOTECHNICAL COSTS					

	CONSTRUCTION					
CONSTRUCTION						
DESCRIPTION:	Dia Dan	LINIET	I TON / FT	TONO	LINIT DDIOE	
	Rip Rap	LIN FT	TON/FT	TONS	UNIT PRICE	
		0	0.0		\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance (cap 15°	%)	LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
				TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$3,609.00

#### **OPERATION AND MAINTENANCE BUDGET WORKSHEET 2010/2011**

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED Total
O&M Inspection and Report	EACH	1	\$3,703.00	\$3,703.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations Contract	LUMP	1	\$0.00	\$0.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADN	INISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

#### MAINTENANCE / CONSTRUCTION

#### CLIDVEV

	SURVET				
SURVEY DESCRIPTION:					
	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
TOTAL SURVEY COSTS:					

#### GEOTECHNICAL

GEOTECH					
DESCRIPTION:					
•	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
		\$0.00			

	CONSTRUCTION					
CONSTRUCTION						
DESCRIPTION:						
	Rip Rap	LIN FT	TON/FT	TONS	UNIT PRICE	
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
				TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$3,703.00

#### **OPERATION AND MAINTENANCE BUDGET WORKSHEET 2010/2011**

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED TOTAL
O&M Inspection and Report	EACH	1	\$3,799.00	\$3,799.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations Contract	LUMP	1	\$0.00	\$0.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADI	MINISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

#### MAINTENANCE / CONSTRUCTION

#### SURVEY

	JONVET				
SURVEY DESCRIPTION:					
	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
TOTAL SURVEY COSTS					\$0.00

#### GEOTECHNICAL

GEOTECH DESCRIPTION:					
	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
		\$0.00			

	CONSTRUCTION					
CONSTRUCTION DESCRIPTION:						
	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
			•	TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

## Appendix D

**Field Inspection Form** 

Project No. / Name: <b>BA-20 Jonathan Davis Wetland</b>					Date of Inspection: <u>9/30/2008</u> Time: <u>9:30 am</u>			
Structure No	Construction U	nit No.1 -Site No. 12		Inspector(s): Richard, Kinler				
Structure Descri	ption: Rock rip-ra	p armored plug		Water Level	Inside: N/A	Outside: N/A		
Type of Inspect	ion: Annual, Post	Storm, other	Post Storm		Weater Co	onditions: Clear Skies	s, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	vations and Remarks	3	
Signage and	01							
supports	Good				Observations:			
Armored Plug					There have been no changes since the last inspection.			
,erea r rag	Good				NRCS and OCPR agree that no maint		s time.	
					· ·	•		
Earthen								
Embankment	Good							
Construction Un	it No.1		•	•				
· ·		ock rip-rap armored ro						
	•	t, west of Bayou Barata						
		evation of +3.9 ft. NGV		. •				
		2,518 tons of rip-rap a th the rock embankmen		I				
manning signs are	aloo loodtod tilloug	in the rook embankmen						

Project No. / Name: <b>BA-20 Jonathan Davis Wetland</b>	Date of Inspection: 9/30/2008	Time: <u>9:30 am</u>
Structure NoConstruction Unit No.1 -Site No. 13	Inspector(s): Richard, Kinle	<u> </u>
Structure Description: Rock rip-rap armored weir	Water Level Inside: N/A	Outside: N/A
Type of Inspection: Annual, Post Storm, other Post Storm	Weater Conditions: Clear Skies, L	ight Wind

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					Observations:
supports	Good				There have been no changes since the last inspection. NRCS and DNR
					agree that this structure is in good condition and will not require maintenance at
Armored Plug					this time.
	Good				
Earthen					
Embankment	Good				
Construction Uni	it No.1				
Structure Descript	tion: 300 linear ft. re	ock rip-rap armored ro	ck filled weir wi	th a 50 ft.	
•	•	Perot and Site 12, wes	•		
east of the GIWW	. The crest of the we	eir is set at an elevatio	n of +1.0 ft. NG	VD. The	
invert of the boat b	bay is set at an eleva	ation of -5.0 ft. NGVD.	Rock wingwalls	s were	
constructed to an	elevation of +3.6 ft.	NGVD. On the west s	side and +4.0 ft.	NGVD	
		filled weir contains 1,0			
772 tons of rip-rap	armor. Aluminum w	varning signs are locat	ted adjacent to t	the	
structure.					

Project No. / Name: <b>BA-20 Jonathan Davis Wetland</b>	Date of Inspection: <u>9/30/2008</u> Time: <u>9:3</u>	<u>30 am</u>
Structure NoConstruction Unit No.1 -Site No. 14	Inspector(s): Richard, Kinler	
Structure Description: Rock rip-rap armored plug	Water Level Inside: N/A Outside: N/A	<u> </u>
Type of Inspection: Annual, Post Storm, other Post Storm	Weater Conditions: Clear Skies, Light Wind	

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					Observations:
supports	Good			1	There have been no changes since the last inspection. The work to be done
					through the CU4 Construction Contract has not been completed due to contract
Armored Plug					issues.
	Poor			1	
Earthen					
Embankment	Fair			1	
Construction Unit	t No.1				
Structure Descripti	on: 138 linear ft. of	rock rip-rap armored	rock filled chan	nel plug	
located in a pipelin	e channel north of E	Bayou Perot, west of E	Bayou Barataria	and east	
of GIWW and Site	13. The crest of the	plug was constructed	d to an elevation	of +3.2 ft.	
NGVD. The rock fi	NGVD. The rock filled plug contains 2,580 tons of rock fill and 1,346 tons of rock			rock	
rip-rap armor. Alun	ninum warning signs	are located through	the rock emban	kment.	

Type of Inspection: Annual, Post Storm, other

#### MAINTENANCE INSPECTION REPORT CHECK SHEET

Weater Conditions: Clear Skies, Light Wind

Project No. / Name: BA-20 Jonathan Davis Wetland	Date of Inspection: 9/3	<u>80/2008</u>	Time: <u>9:30 am</u>
Structure NoConstruction Unit No.1 -Site No. 15	Inspe	ector(s): Richard, Kinler	
Structure Description: Rock rip-rap armored weir w/ boat bay	Water Level	Inside: <u>N/A</u>	Outside: <u>N/A</u>

Post Storm

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					
supports	Good			2	Observations:
					There have been no changes since the last inspection. The work to be done
Armored Plug					through the CU4 Construction Contract has not been completed due to contract
	Good			2	issues.
Rock weir					
	Good			2	
					Remarks:
Earthen					The original design of this structure was modified to a rock weir with boat bay to
Embankment	Good			2	accommodate oilfield activities and navigation on the interior of the structure.
					During above mentioned maintenance this structure will be converted to a rock
<b>Construction Uni</b>	t No.1				
Structure Descript	ion: 132 linear ft. of	rock rip-rap armored	weir with a 50 ft	t. wide	
boat bay located ir	n a pipeline channel	north of Bayou Perot,	west of Bayou	Barataria	
and east of the GI	WW and Site 14. Th	ne crest of the rock we	eir was construc	ted to an	
elevation of +4.0 ft	t. NGVD. The invert	of the boat bay is at a	and elevation of	-3.0 ft.	
The rock filled wei	r contains 1,248 ton	s of rock fill with and 7	728 tons of rock	rip-rap	
armor. Two (2) aluminum warning signs are located through the rock armored			the rock armor	ed	
embankment on e	ach side of the boat	bay.			

Project No. / Na	me: <b>BA-20 Jonat</b> l	han Davis Wetland		Date of Inspection: <u>9/30/2008</u> Time: <u>9:30 am</u> Inspector(s): <u>Richard, Kinler</u>					
Structure No	Construction U	nit No.1 -Site No. 16							
Structure Descri	ption: Rock rip-ra	p armored plug		Water Level	Inside: N/A	Outside: N/A			
Type of Inspect	ion: Annual, Post	Storm, other	Post Storm		Weater Co	nditions: Clear Skies	s, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	ations and Remarks	<u> </u>		
Signage and supports	Good			3					
Armored Plug	Fair			3	Observation: There have been no changes since the through the CU4 Construction Contract				
Earthen Embankment	Good			3	issues.	e nac not boon comple	stod ddo to dontradt		
					Remarks:				
Construction Un									
		rock filled plug located							
	•	Barataria, east of the Can elevation of +4.0 ft.							
		nd 1,766 tons of rock ri							
, •		through the rock plug e	• •	VO (2)					
	, , , , , , , , , , , , , , , , , , , ,	5 Fing -							

Project No. / Nar	ne: <b>BA-20 Jonat</b>	han Davis Wetland		Date of Inspection: <u>9/30/2008</u> Time: <u>9:</u>				
Structure No	Construction U	Init No.1 -Site No. 17			Inspector(s): Richard, Kinler			
Structure Descri	ption: Rock rip-ra	ap armored plug			Water Level Inside: N/A Outside: N/A			
Type of Inspecti	on: Annual, Post	Storm, other	Post Storm		Weater Co	onditions: Clear Skie	s, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Obser	vations and Remarks	3	
Signage and supports	Good							
Armored Plug	Fair				Observation: There have been no changes since the through the CU4 Construction Contraction	•		
Earthen Embankment Good				issues.  Remarks:				
					Remarks.			
	<u> </u>							
Construction Uni	-	of rock rip-rap armored	rock filled plug	located				
· ·		Perot, west of Bayou B						
the GIWW. The crest of the plug was constructed to an elevation of 3.8' NAVD. The rock filled plug contains2,253 tons of rock fill and 1,201 tons of rock rip-rap armor.								
	, , , , , , , , , , , , , , , , , , , ,	y galvanized pipe are l	ocated through	the				
rock embankment								

Project No. / Name: **BA-20 Jonathan Davis Wetland** 

#### MAINTENANCE INSPECTION REPORT CHECK SHEET

Date of Inspection: 9/30/2008

Time: 9:30 am

Structure No	Construction Ur	nit No.1 -Site No. 19		Ins	pector(s): Richard, k	Kinler		
Structure Descri	ption: Rock rip-rap	armored weir			Water Level	Inside: <u>N/A</u>	Outside: N/A	
Type of Inspect	ion: Annual, Post S	Storm, other	Post Storm		Weater Co	onditions: Clear Skie	s, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	vations and Remarks	<u> </u>	
Signage and supports	Good				Observation:			
Armored Plug	Good				There have been no changes since th agree that this structure does not need			
Earthen Embankment	Good							
Construction Un								
•		f rock rip-rap armored						
weir with a 60 ft. wide boat bay located in a pipeline channel east of the GIWW, north								
of Bayou Perot, and west of Bayou Barataria. The crest of the weir was constructed to an elevation of +1.9 ft. NGVD on the north side and +2.0 ft. NGVD on the south. The								
boat bay invert was constructed to an elevation of -2.5 ft. NGVD. The rock filled plug								
				. •				
contains 1,014 tons of rock fill with 572 tons of rock rip-rap armor. Aluminum waring signs are located on each side of the barge bay through the rock embankment.								

Project No. / Name: <b>BA-20 Jonathan Davis Wetland</b>	Date of Inspection: 9/30/2008	Time: <u>9:30 am</u>
Structure NoConstruction Unit No.2 -Site No. 20	Inspector(s): Richard, Kinler	
Structure Description: Rock rip-rap armored plug	Water Level Inside: N/A	Outside: <u>N/A</u>
Type of Inspection: Annual, Post Storm, other Post Storm	Weater Conditions: Clear Skies, Ligh	nt Wind

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					
supports	Good			4	
Armored Plug					Observation:
/g	Good			4	There have been no changes since the last inspection. No maintenance
				·	required at this time. Will monitor this structure on future site visits.
Earthen					
Embankment	Good			4	
	<u> </u>				
Construction Uni					
		rock rip-rap armored			
		ou Barataria, and eas			
plug crest was con	nstructed to an eleva	ation of +4.0 ft. NGVD	. The rock filled	plug	
contains 1,829 tons of rock fill with 795 tons of rock rip-rap armor. Two (2)					
aluminum warning signs are located on each end of the structure through the					
armored rock plug	embankment.				

Project No. / Name: BA-20 Jonathan Davis Wetland					Date of Inspection: 9	9/30/2008	Time: <u>9:30 am</u>
Structure No	Construction U	nit No.2 -Site No. 21		Inspector(s): Richard, Kinler			
Structure Descri	ption: Rock rip-ra	p armored plug		Water Level	Inside: N/A	Outside: N/A	
Type of Inspection: Annual, Post Storm, other Post Storm					Weater Conditions: Clear Skies, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	vations and Remarks	3
Signage and supports	Good						
Armored Plug	Good				Observation: There have been no changes since the required at this time.	e last inspection. No r	naintenance will
Earthen Embankment	Good						
0	14 NI - 4						
Construction Un		rock rip-rap armored re	ock filled plug le	acatod			
· ·							
north of Bayou Rigolettes, west of Bayou Barataria, and east of Bayou Perot. The plug crest was constructed to an elevation of +4.0 ft. NGVD. The rock filled plug							
contains 285 tons of rock fill and 220 tons of rock rip-rap armor. Two (2)							
		y galvanized pipe are lo	ocated on each				
end of the structu	re through the rock	embankment.					
1							

Project No. / Name: **BA-20 Jonathan Davis Wetland** 

#### MAINTENANCE INSPECTION REPORT CHECK SHEET

Date of Inspection: 9/30/2008

Time: 9:30 am

Structure No	Construction U	nit No.2 -Site No. 22	A	Inspector(s): Richard, Kinler			
Structure Descri	ption: Canal Bank	< Stabilization		Water Level	Inside: <u>N/A</u>	Outside: N/A	
Type of Inspection: Annual, Post Storm, other Post Storm					Weater Conditions: Clear Skies, Light Wind		
Item	n Condition Pysical Damage Corrosion Photo# Observa						<b>3</b>
Signage and supports	Good				Observation:		
Rock Armored Bank	Good				There have been no changes since the required at this time.	e last inspection. No n	naintenance is
Earthen Embankment	Good						
Construction Un		I tabilization consisting o	I of 1 385 linear ft	of rock			
Structure Description: Canal bank stabilization consisting of 1,385 linear ft. of rock rip-rap protection on the west bank of the access channel at the Baltazaar Point Subdivision. The rip-rap was constructed to an elevation of +3.0 ft.							

Project No. / Name: <b>BA-20 Jonathan Davis Wetland</b>					Date of Inspection: 9	/30/2008	Time: <u>9:30 am</u>
Structure No. Construction Unit No.2 -Site No. 22					Inspector(s): Richard, Kinler		
Structure Description: Steel sheet pile structure w/ boat bay					Water Level	Inside: <u>N/A</u>	Outside: N/A
Type of Inspection: Annual, Post Storm, other Post Storm				Weater Co	nditions: Clear Skies	s, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	Cobservations and Remarks		
Steel Bulkhead							
/ Caps I	Good						
Handrails					Observation:		
Hardware, etc.	Good				There have been no changes since the	e last inspection. No n	naintenance
,					required at this time.	•	
Signage and							
supports	Good						
Daalamain							
Rock weir	Good						
	Good						
Earthen							
Wingwalls	Good						
Rock Armored							
Earthen	Good						
Embankment		_					
Construction Uni	t No.2			I			
Structure Descript	ion: 58 linear ft. of	steel sheet pile bulkhe	ead with a crest	elevation			
		at bay with a crest elev					
off of Bayou Regolettes, west of Bayou Barataria and east of GIWW. The structure consists of a steel sheet pile weir with 1,426 square feet of sheet piling set at +1.95 ft.							
At the bottom the boat bay, is a 1.5 ft. thick rock rip-rap scour pad seciton with an							
	invert of -0.93 ft. This structure ties into structure 22A on the west side. Aluminum						
warning signs supported by 12" diameter timber piles are located at the entrance							
of the boat bay.							

#### MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Na	me: <b>BA-20 Jonath</b>	an Davis Wetland		Date of Inspection: 9/30/2008 Time: 9:30 am			
Structure NoC	Construction Unit N	lo.2		Inspector(s): Richard, Kinler			
Structure Descri	ption: Rock dike a	llong Bayou Rigolette	<u>es</u>	Water Level	Inside: N/A	Outside: N/A	
Type of Inspection: Annual, Post Storm, other Post Storm Weater Conditions: Clear Skies					s, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	Obser	vations and Remarks	
Signage and							
supports	Good						
Armored Plug							
, amorou i lug	Good				Observation:		
					There have been no changes since the	e last inspection. The v	vork to be done
Rock Dike					through the CU4 Construction Contract	t has not been comple	ted due to contract
	Good				issues.		
Earthen							
Embankment	Good						
21110011111111111	2000						

#### Construction Unit No.2

Structure Description: The rock dike consist of 3,967 linear ft. of rock dike with a 6 ft. top width and a crest elevation of +3.5 ft. The shoreline stabilization extends from Site 22A west to Structure No.20.

Project No. / Name: **BA-20 Jonathan Davis Wetland** 

#### MAINTENANCE INSPECTION REPORT CHECK SHEET

Date of Inspection: 9/30/2008

Time: 9:30 am

Structure NoConstruction Unit No.3					Ins	pector(s): Richard, I	<u> Kinler</u>
Structure Descr	iption: Rock dike a	along Bayou Perot		Water Level	Inside: N/A	Outside: N/A	
Type of Inspection: Annual, Post Storm, other			Post Storm		Weater Conditions: Clear Skies, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	Observ	vations and Remarks	 S
Signage and supports	Good						
Armored Plug	Good				Observation: There have been no changes since the	e last inspection. The	work to be done
Rock Dike	Good				through the CU4 Construction Contractionsues.		
Earthen Embankment	Good				Some erosion was noted beyond the w	vest end of the Bayou	Perot rock dike.
· ·	tion: The rock dike	consist of 13,088 linea f +3.5 ft. The shoreline					
from Site 12 west	to the Gulf Intracoa	astal Waterway					